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THE LATEST SCOOP

1982 EDITION

◆ FACTS AND FIGURES ON ICE CREAM AND RELATED PRODUCTS ◆

PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS

◆ ◆ ◆ WORLDWIDE ◆ ◆ ◆

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GELATO • (Italian)

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IS KREM • (Norwegian)

FAGYLALT • (Hungarian)

SORBETES • (Filipino)

SPEISE-EIS • (German)

HELADO • (Spanish)

Παγωτο • (Greek)

DONDURMA • (Turkish)

GLASS • (Swedish)

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THE LATEST SCOOP
1982 EDITION

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FOREWORD

This edition of "The Latest Scoop" is designed to show the universality of ice cream...a familiar word in any language. This product, popular throughout the ages, is still one of mankind's favorite foods.

In addition to reporting production and consumption trends in the United States, Canada and 55 other countries, this issue contains information on consumer demographics, household usage, serving occasions and other relevant data.

We hope you will find this annual publication of the industry interesting and helpful.

Listed below are other publications available from the International Association of Ice Cream Manufacturers.

Other Publications

Frozen Dessert Facts

Marketing Information on Ice Cream and Related Products

Marketing Dairy Products to Foodservice

The Foodservice Market for Dairy Products

Let's Sell - Let's Serve Ice Cream

History of Ice Cream

Yogurt Marketing Profile

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How It All Started

Ice cream probably evolved from chilled wines and other iced beverages. In the fourth century before Christ, Alexander the Great was reputed to be fond of iced beverages.

And, from ancient records, it is learned that in 62 A.D., the Roman Emperor, Nero, sent fleets of slaves to the mountains of the Apennines to fetch snow and ice which were then flavored with nectar, fruit pulp and honey.

Marco Polo, the 13th century bard and adventurer, brought with him to Europe from the Far East, recipes for water ices...said to be used in Asia for thousands of years. These water ices became popular in Venice and throughout Italy.

When Catherine de Medici married Henry II and became Queen of France in 1533, she brought with her recipes for Italian sherbet. It is said that her son, Henry III, was addicted to these delicacies and consumed them daily.

In 1660 the Cafe Procope was founded in Paris by an Italian named Coltelli, and water ices and possibly cream ices were manufactured and dispensed.

This delicacy found its way to America and in 1700 Governor Bladen of Maryland was serving ice cream to his guests.

Dolley Madison created a sensation when she served ice cream as a dessert in the White House at the second inaugural ball in 1812.

The first hand-cranked freezer was invented by Nancy Johnson in 1846. She failed to patent it, however, and a similar type was patented by a Mr. Young in 1848.

The first commercial ice cream plant was established in Baltimore in 1851 by Jacob Fussell.

A year before the turn of the century, August Gaulin of Paris invented the homogenizer which is used to help develop the smooth texture of ice cream.

With the coming of mechanical refrigeration, the first batch freezer was invented by H. H. Miller of Canton, Ohio. About 1926, the first continuous freezer was commercially perfected by Clarence Vogt of Louisville, Kentucky.

The ice cream cone was first made and sold at the St. Louis World's Fair in 1904. It has remained a favorite to this date, with billions of cones consumed each year. Other products, such as ice cream on sticks, ice cream bars and other forms of ice cream; ice milk and sherbet, known in the industry as "novelties" had their beginning in the 1920s.

How Ice Cream Is Made

The basic mix for the manufacture of ice cream is largely cream and other milk ingredients, plus sweeteners.

The ingredients of the mix are carefully blended in proper proportions in a mixing tank. The mix may contain small amounts of functional ingredients, such as stabilizer, which prevents the formation of ice crystals in the ice cream after it is frozen.

The mix goes to a pasteurizer where it is heated and held at a predetermined temperature for a specified period of time. The most common type of pasteurization is the high-temperature-short-time method in which the mix is heated to 175 degrees F. and held for 25 seconds.

The hot mix then goes to the homogenizer where, under pressure of from 2,000 to 2,500 pounds per square inch, the milkfat globules are broken into still smaller particles to help make the ice cream smooth.

After homogenization, the hot mix is quickly cooled to a temperature of about 40 degrees F.

Next, freezing of the mix is accomplished by one of two methods: a "continuous freezer" which uses a steady flow of mix; or a "batch freezer" which makes a single quantity of ice cream at a time.

While the ice cream is being frozen, blades in the freezer, or "dashers" as they are commonly called, whip and aerate the products. Without this aeration, the finished product would be an inedible, solidly frozen mass of cream, milk, sugar and flavoring. In all states, this aeration, called "overrun," is controlled by requiring the finished ice cream shall weigh not less than 4.5 pounds per gallon and contain at least 1.6 pounds of total food solids.

With the use of the continuous freezer, ingredients such as fruits and nuts are added after the freezing by a mechanical flavor feeder. Liquid flavors are added to the mix prior to freezing.

The filling operation includes many activities such as filling large containers, half gallon, quart and pint packages, paper cups or molds for ice cream on a stick.

After the freezer and filling, ice cream goes to the "hardening room" where sub-zero temperatures further harden the ice cream. From the hardening room, it is loaded into refrigerated trucks for delivery to distributors or retailers.

Review

1981

United States

- The wholesale value of ice cream, ice milk, sherbet and water ices was estimated to be $3.445 billion in 1981.
- The industry employs 19,600 people with an annual payroll of $288.6 million.
- Nine percent of the total milk supply was utilized by the frozen desserts industry.
- Raw material costs represent 57.2% of the ice cream processor's dollar.
- It takes an average worker 15.5 minutes of labor to earn a half gallon of ice cream.
- Ice cream and related products are consumed in 86% of the households.
- July was the highest producing month for ice cream and related products with January ranking the lowest.
- Per capita consumption of ice cream and related products are highest among children 2-17 and adults 45 years and over.
- The consumption of novelties is twice as high in the Northeast and North Central areas as in the South and West regions.
- Half gallon containers account for 87% of all packaged ice cream sold.
- Ice cream and frozen custard stand sales amounted to $1.29 billion.

International

- The United States continues as the largest consumer of ice cream and related products with a per capita production of 42.83 pints. Per capita production of ice cream was 29.04 pints.
- Australia follows closely with a per capita production of all products of 39.46 pints. Ice cream per capita was 30.55 pints.
- Canada ranks as the third largest consumer with a per capita production of 33.23 pints of all frozen desserts and a per capita of 28.05 pints of ice cream.
- New Zealand, reporting only production of ice cream, is the fourth largest consumer with a per capita production of 36.76 pints.
- Sweden, with a per capita production of 26.65 pints of ice cream and related products is in fifth place. Per capita production of ice cream was 23.44 pints.

Highlights—United States

1981

Minimal change was reported in the production of ice cream and related products for the year 1981, with the exception of mellorine-type products. Total production amounted to 1,227,670,000 gallons, an increase of 0.19%. Per capita was 21.42 quarts.

The volume of ice cream totaled 832,243,000 gallons, an increase of 0.3%. Hard ice cream accounted for 96.6% of this total. Ice milk production declined 0.6%, with hard production dropping 10% while soft-serve increased 3%. Sherbet and water ices reported an increase of 1% and 1.6% respectively. Mellorine continued its downward trend with a decrease of 15.2% for the year.

Ice cream is the major product and represented 67.8% of the total production, followed by ice milk with 23.7%, sherbet 3.7%, water ices 2.7%, with the balance made up of mellorine and other frozen dairy products.

California produced the largest volume of ice cream and related products, with a total production of 135,663,000 gallons, 11% of the nation's total.

The New England area had the highest per capita production of ice cream, 21.10 quarts, while the West North Central region reported the highest per capita production of all products with 29.52 quarts.

Production Changes - 1981

	1981	% Change from 1980
Total--ice cream & related products 1/	1,227,670,000 gals.	+ 0.2
Per capita production	21.42 qts.	- 0.1
Ice cream (hard and soft)	832,243,000 gals.	+ 0.3
Per capita production	14.52 qts.	- 0.6
Ice milk (hard and soft)	291,509,000 gals.	- 0.6
Per capita production	5.09 qts.	- 1.5
Sherbet (hard and soft)	45,631,000 gals.	+ 1.0
Per capita production	0.80 qts.	0.0
Water ices (hard) 2/	33,932,000 gals.	+ 1.6
Per capita production	0.59 qts.	0.0
Mellorine (hard and soft)	11,191,000 gals.	-15.2
Per capita production	0.19 qts.	-17.4

1/ Includes a small amount of other frozen dairy products.
2/ Excludes production of water ices by counter freezers.

DEFINITIONS

- Selected Frozen Desserts -

ICE CREAM is a frozen food made from a mixture of dairy products, such as milk, cream and nonfat milk, combined with sugars, flavorings, fruits, nuts, etc. Ice cream which contains at least 1.4% egg yolks is called french ice cream or frozen custard. Ice cream and french ice cream contain a minimum of 10% milkfat and weigh not less than 4.5 pounds per gallon.

ICE MILK is a frozen dessert which is similar to ice cream except that it contains between 2% to 7% milkfat.

SHERBET, both fruit sherbet and those flavored with flavors other than fruit, contains between 1% to 2% milkfat and weighs not less than 6 pounds per gallon.

WATER ICES, both fruit ices and those flavored with flavors other than fruit, contain no dairy ingredients and weigh not less than 6 pounds per gallon.

MELLORINE is a frozen dessert similar to ice milk in which the milkfat is replaced, in whole or in part, with vegetable fat and the minimum fat content is 6%.

NUTRITION HIGHLIGHTS 1/

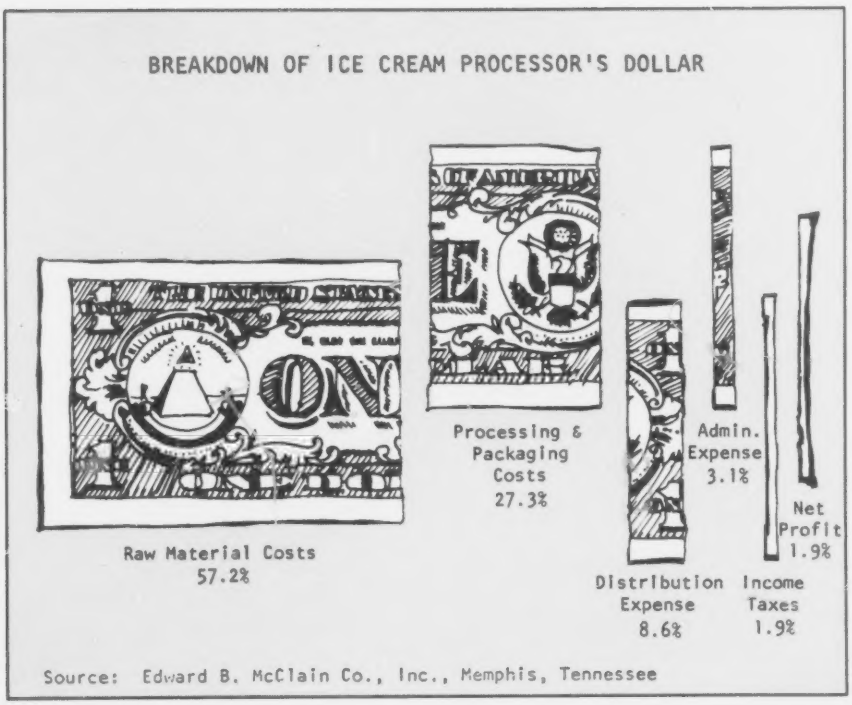
	Calories	Protein g.	Carbohydrate g.	Fat g.	Vitamin A I.U.	Calcium mg.	Phosphorus mg.	Riboflavin mg.
Vanilla Ice Cream (10% fat)	130	2.3	15.3	6.9	261	84	64	.158
% U.S. RDA 2/		*5.1%*			*5.2%*	*8.4%*	*6.4%*	*9.3%*
Vanilla Ice Cream (16% fat)	151	1.8	13.8	10.2	388	65	50	.122
% U.S. RDA 2/		*3.9%*			*7.8%*	*6.5%*	*5.0%*	*7.2%*
Vanilla Ice Milk (4% fat)	90	2.5	14.2	2.8	104	85	63	.169
% U.S. RDA 2/		*5.6%*			*2.1%*	*8.5%*	*6.3%*	*9.9%*
Orange Sherbet (2% fat)	90	.72	19.5	1.3	61	34	24	.029
% U.S. RDA 2/		*1.6%*			*1.2%*	*3.4%*	*2.4%*	*1.7%*

1/ Values presented per 1/2 cup (approximately 4 fluid ounces). Source: Calculated from USDA Agricultural Handbook 8-I (November 1976) data.

2/ United States Recommended Daily Allowance.

THE "REAL" PRICE OF ICE CREAM
1971-1981

Year	Average Wages Production Workers $ per Hour	Average Retail Price of Ice Cream ¢ per ½ Gallon	Labor Required to Purchase Half Gallon of Ice Cream Minutes
1971	3.57	85.4	14.4
1972	3.81	85.8	13.5
1973	4.09	91.0	13.3
1974	4.42	107.6	14.6
1975	4.83	122.3	15.2
1976	5.22	127.1	14.6
1977	5.68	135.2	14.3
1978	6.17	146.0	14.2
1979	6.70	163.3	14.6
1980	7.27	185.4	15.3
1981	7.98	205.6	15.5
% Change 1971-1981	+124%	+141%	+8%



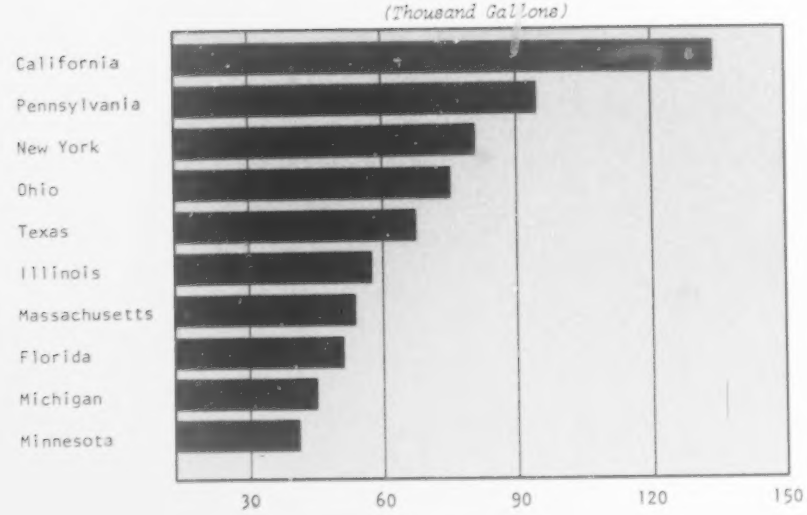
PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
BY STATES AND REGIONS - 1981

STATE & REGION	ICE CREAM	ICE 1/ MILK	SHERBET	WATER ICES	MELLORINE TYPE PRODUCTS	OTHER FROZEN DAIRY PRODUCTS	TOTAL FROZEN PRODUCTS
			(Thousand Gallons)				
NEW ENGLAND							
Maine	493	457	3				953
New Hampshire	2/	701	2/				701
Vermont	317	393	2/				710
Massachusetts	43,193	10,173	2,089	2/		336	55,791
Rhode Island	1,065	749	39	2/			1,853
Connecticut	19,817	3,403	2/	2/			23,220
MID ATLANTIC							
New York	63,737	9,163	2,619	3,554			79,073
New Jersey	15,770	3,498	343	161			19,772
Pennsylvania	71,321	13,978	3,736	1,709		2,211	92,955
E. N. CENTRAL							
Ohio	46,750	22,044	3,050	2,324		895	75,063
Indiana	21,672	6,569	1,039	1,501	2/	614	31,395
Illinois	35,787	18,314	1,991	693	857	494	58,136
Michigan	32,046	11,543	1,817	2/	2/	493	45,899
Wisconsin	20,861	6,098	861	2,241			30,061
W. N. CENTRAL							
Minnesota	33,772	5,263	1,629		2/	174	40,838
Iowa	14,213	5,415	1,225	2/	775		21,628
Missouri	16,535	9,987	1,207	2/	479		28,208
North Dakota	2,256	1,045	118	2/			3,419
South Dakota	2/	524					524
Nebraska	9,556	3,821	421	2/			13,798
Kansas	8,261	5,223	588				14,072
SOUTH ATLANTIC							
Delaware	2/	2/					2/
Maryland & D.C.	16,723	5,953	1,354	1,997		67	26,094
Virginia	10,665	4,203	400	77			15,345
West Virginia	2,450	2,359	134	2/			4,943
North Carolina	26,304	10,742	1,307	1,569			39,922
South Carolina	10,463	4,325	1,062	2/			15,850
Georgia	6,280	7,638	483	2/			14,401
Florida	34,322	14,589	1,678	989			51,578
SOUTH CENTRAL							
Kentucky	2/	3,456	2/	2/			3,456
Tennessee	18,095	5,164	1,031	555	2/	246	25,091
Alabama	13,335	6,323	738	794			21,190
Mississippi	4,966	2,967	358	280			8,571
Arkansas	5,026	3,384	275		378		9,063
Louisiana	8,246	4,407	484	145	4	107	13,393
Oklahoma	9,663	4,605	493	200	204	189	15,354
Texas	44,570	12,387	3,001	2,057	5,642		67,657
MOUNTAIN							
Montana	1,908	963	71	2/	2/		2,942
Idaho	3,069	1,226	146	2/			4,441
Wyoming	2/	644	2/				644
Colorado	9,808	5,448	514	534		120	16,424
New Mexico	3,503	2/	2/	2/	2/		3,503
Arizona	6,173	4,520	398	2/			11,091
Utah	8,475	2,351	533	152			11,511
Nevada	1,212	2/	2/		2/		1,212
PACIFIC							
Washington	16,505	8,731	1,087	2/			26,323
Oregon	9,069	4,614	476	2/	190		14,349
California	94,150	28,399	4,951	3,542	1,744	2,877	135,663
Other States 3/	9,841	3,750	1,882	8,658	918	4,341	29,590
UNITED STATES	832,243	291,509	45,631	33,932	11,191	13,164	1,227,670

1/ Includes freezer-made milkshake.
2/ State data not shown when less than 3 plants reported or individual operations might be disclosed - included in "Other States" with Alaska and Hawaii.
3/ Includes varying states for each product.
Prepared by International Assn. of Ice Cream Mfrs. from data published by U. S. Department of Agriculture.

TOTAL PRODUCTION OF FROZEN DESSERTS (HARD AND SOFT)
TEN LEADING STATES, 1981

(Thousand Gallons)



PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
TEN LEADING STATES, 1981

State	Ice Cream	Ice Milk	Sherbet	Water Ices	Mellorine Type Products	Total 1/
			(Thousand Gallons)			
California	94,150	28,399	4,951	3,542	1,744 2/	135,663
Pennsylvania	71,321	13,978	3,736	1,709		92,955
New York	63,737	9,163	2,619	3,554		79,073
Ohio	46,750	22,044	3,050	2,324		75,063
Texas	44,570	12,387	3,001	2,057	5,642	67,657
Illinois	35,787	18,314	1,991	693	857	58,136
Massachusetts	43,193	10,173	2,089			55,791
Florida	34,322	14,589	1,678	989		51,578
Michigan	32,046	11,543	1,817			45,899
Minnesota	33,772	5,263	1,629			40,838
TOTAL-10 STATES	499,648	145,853	26,561	14,868	8,243	702,653
PERCENT OF U. S. TOTAL	60.0%	50.0%	58.2%	43.8%	73.7%	57.2%

1/ Includes small amounts of other frozen products in addition to those shown separately.
2/ Designated as "Imitation Ice Cream" or "Imitation Ice Milk" in California.

Prepared by International Association of Ice Cream Manufacturers from data published by U. S. Department of Agriculture.

EMPLOYEES, WAGES AND VALUE OF SHIPMENTS
FROZEN DESSERTS INDUSTRY, 1947-1980

Year	All Employees 1/		Production Workers 1/		Wages 1/	Value of Product Shipments 2/
	Number	Payroll	Number	Manhours		
	Thousands	Million Dollars	Thousands	Millions	Million Dollars	Million Dollars
1947	46.7	119.3	29.3	52.8	66.1	802.0
1954	36.5	134.2	21.0	42.4	64.2	954.3
1958	34.8	153.9	18.7	37.7	72.4	1,137.7
1963	29.6	162.8	15.6	32.5	76.6	1,210.0
1967	24.6	156.4	13.8	27.2	77.2	1,273.6
1968	23.7	158.2	13.2	26.6	79.8	1,330.0
1969	22.7	159.2	12.6	25.4	80.6	1,334.8
1970	24.1	166.8	13.9	26.1	85.9	1,343.2
1971	22.6	173.5	12.8	25.1	87.7	1,389.0
1972	21.1	184.7	12.0	23.5	94.7	1,519.4
1973	21.3	195.9	12.1	24.1	100.0	1,639.5
1974	21.3	196.5	11.8	22.9	108.0	1,787.9
1975	20.2	208.5	11.1	22.0	116.4	2,012.9
1976	20.3	223.6	11.3	22.3	125.3	2,063.3
1977	19.1	247.0	11.4	22.7	130.1	2,229.4
1978	18.5	252.5	11.3	21.9	136.6	2,397.2
1979	19.9	277.4	12.3	24.3	151.9	2,733.2
1980	19.6	288.6	12.3	23.7	163.0	3,041.5

1/ Data for plants with ice cream and other frozen desserts as the leading product group in value of shipments.

2/ Includes value of shipments of ice cream and other frozen desserts by plants classified in other industries, such as fluid milk.

SOURCE: Bureau of the Census, U. S. Department of Commerce.

CAPITAL EXPENDITURES FOR NEW PLANTS AND EQUIPMENT
FROZEN DESSERTS INDUSTRY, 1947-1980

Year	Total	For Plants	Share of Total	For Equipment	Share of Total
	Million Dollars	Million Dollars	Percent	Million Dollars	Percent
1947	36.0	5.4	15.0	30.6	85.0
1954	25.7	4.2	16.3	21.5	83.7
1958	26.1	5.1	19.5	21.0	80.5
1963	31.9	8.1	25.4	23.8	74.6
1967	26.6	5.7	21.4	20.9	78.6
1968	22.1	2.8	12.7	19.3	87.3
1969	30.3	5.6	18.5	24.7	81.5
1970	43.7	15.8	36.2	27.9	63.8
1971	28.0	5.7	20.4	22.3	79.6
1972	35.8	7.5	20.9	29.3	79.1
1973	29.2	9.7	33.2	19.5	66.8
1974	27.8	6.2	22.3	21.6	77.7
1975	37.2	10.1	27.2	27.0	72.6
1976	43.2	11.9	27.5	31.3	72.5
1977	58.1	19.4	33.4	38.7	66.6
1978	56.4	12.6	22.3	43.8	77.7
1979	46.3	12.8	27.6	33.5	72.4
1980	46.8	11.1	23.7	35.7	76.3

SOURCE: Bureau of the Census, U. S. Department of Commerce.

TOTAL AND PER CAPITA PRODUCTION (HARD AND SOFT)
ICE CREAM AND RELATED PRODUCTS
1859-1981

YEAR	ALL PRODUCTS REPORTED		ICE CREAM		ICE MILK 2/		SHERBET		WATER ICES		OTHER FROZEN 3/ DAIRY PRODUCTS		MELLORINE TYPE PRODUCTS	
	Total 1/ 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1859	4		4											
1869	24		24											
1879	144	0.01	144	0.01										
1889	851	0.06	351	0.06										
1899	5,021	0.27	5,021	0.27										
1909	29,637	1.31	29,637	1.31										
1919	152,982	5.86	152,982	5.86										
1920	171,248	6.43	171,248	6.43										
1930	255,439	8.30	255,439	8.30										
1940	339,544	10.29	318,088	9.64	10,457	0.32	8,089	0.24			2,910	0.09		
1950	634,768	16.79	554,351	14.66	36,870	0.98	17,018	0.45	18,299	0.48	8,230	0.22		
1955	819,934	19.96	628,525	15.30	90,185	2.20	37,365	0.91	28,158	0.69	3,440	0.08	32,261	0.78
1960	969,004	21.54	699,605	15.55	145,177	3.23	40,734	0.91	33,361	0.74	4,913	0.11	45,214	1.00
1965	1,130,215	23.36	757,000	15.65	230,992	4.77	45,449	0.94	37,119	0.77	6,486	0.13	53,169	1.10
1970	1,193,144	23.42	761,732	14.95	286,663	5.63	48,887	0.96	37,265	0.73	6,719	0.13	51,878	1.02
1975	1,263,213	23.45	836,552	15.53	298,789	5.55	48,542	0.90	38,230	0.71	11,062	0.20	30,038	0.56
1978	1,236,522	22.27	815,360	14.68	310,063	5.58	48,034	0.87	33,965	0.62	12,836	0.23	16,264	0.29
1979	1,212,645	21.60	811,079	14.45	296,653	5.29	45,124	0.80	32,081	0.57	12,034	0.21	15,674	0.28
1980	1,225,223	21.58	829,798	14.61	293,384	5.17	45,187	0.80	33,386	0.59	10,278	0.18	13,190	0.23
1981	1,227,670	21.42	832,243	14.52	291,509	5.09	45,631	0.80	33,932	0.59	13,164	0.23	11,191	0.19

1/ Data from 1859 to 1919 indicate only the estimated trend of production.

2/ Includes freezer-made milkshake beginning 1954.

3/ For 1940-1953 includes frozen custard and frosted or frozen malted milk.

Prepared by the International Association of Ice Cream Manufacturers from data published by the U. S. Department of Agriculture.

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
1979-1981

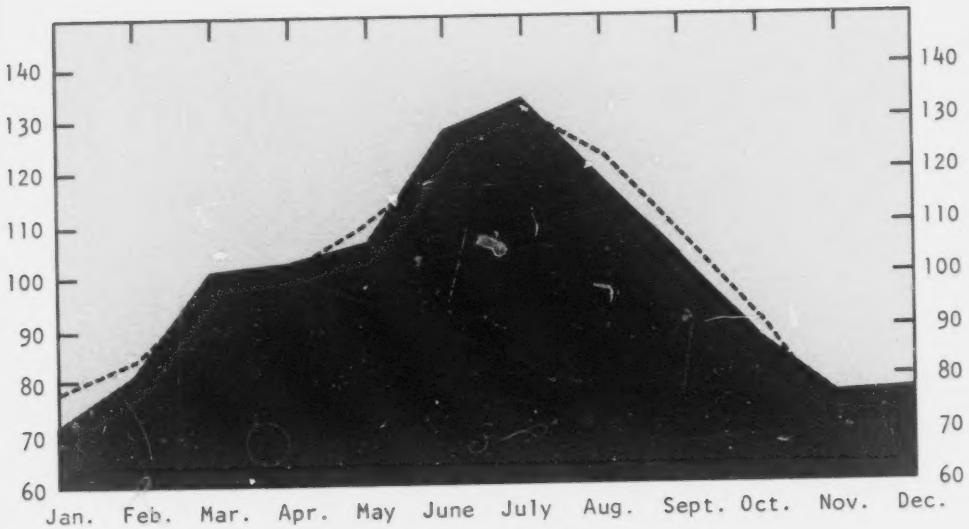
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
						(Thousand Gallons)							
						ALL FROZEN PRODUCTS 1/							
1979	78,016	80,273	104,102	102,883	115,595	125,948	124,810	129,432	103,950	96,363	78,998	72,275	1,212,645
1980	81,619	86,030	99,231	104,348	111,986	124,112	134,442	126,500	108,396	94,847	74,390	79,322	1,225,223
1981	74,491	83,893	103,539	106,174	109,245	131,367	136,632	122,552	107,401	92,018	79,478	80,880	1,227,670
						ICE CREAM							
1979	55,244	56,154	69,753	67,515	73,510	80,203	79,771	84,110	70,089	66,972	55,873	51,885	811,079
1980	58,244	60,958	68,379	69,681	71,888	79,705	86,878	83,299	73,973	66,233	53,199	57,361	829,798
1981	51,784	58,837	70,804	69,838	70,219	85,119	89,194	81,325	74,421	64,746	56,924	59,032	832,243
						ICE MILK 2/							
1979	16,883	17,665	25,432	25,572	30,611	32,718	32,571	33,334	25,837	22,561	17,799	15,670	296,653
1980	17,572	18,717	23,009	25,504	29,244	31,629	34,047	31,416	26,151	22,303	16,821	16,971	293,384
1981	17,009	18,382	23,917	26,430	28,315	33,082	33,638	30,223	24,986	21,182	17,756	16,589	291,509
						SHERBET							
1979	2,934	2,575	3,646	3,964	4,426	5,115	5,083	4,979	3,720	3,294	2,717	2,671	45,124
1980	3,021	2,890	3,477	3,715	4,268	5,003	5,563	5,033	3,910	3,000	2,372	2,935	45,187
1981	2,648	2,862	3,575	4,025	4,358	5,333	5,610	4,792	3,832	3,044	2,542	3,010	45,631
						WATER ICES							
1979	1,395	1,977	2,766	3,130	4,089	4,734	4,418	4,005	1,996	1,616	1,106	849	32,081
1980	1,466	1,892	2,532	3,191	4,075	4,942	5,057	4,147	2,374	1,711	994	1,005	33,386
1981	1,632	2,145	3,093	3,564	3,893	4,965	5,315	3,836	2,235	1,311	959	984	33,932
						MELLORINE TYPE PRODUCTS							
1979	968	1,165	1,425	1,405	1,570	1,672	1,617	1,637	1,295	1,198	981	741	15,674
1980	813	989	1,023	1,235	1,353	1,490	1,462	1,313	1,194	1,030	617	671	13,190
1981	745	789	963	1,115	1,071	1,285	1,210	1,034	940	856	628	555	11,191

1/ Includes small amounts of other frozen products in addition to those shown separately.
2/ Includes freezer-made milkshake.

Prepared by the International Association of Ice Cream Manufacturers from data published by U. S. Department of Agriculture.

SEASONALITY OF PRODUCTION OF ICE CREAM
AND RELATED PRODUCTS - 1981

(Monthly production as a percent of annual average)



----- Indicates 1980 Production.

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
AS A PERCENT OF ANNUAL AVERAGE, 1980-1981

Month	1980	1981
January	79.9	72.8
February	84.3	82.0
March	97.2	101.2
April	102.2	103.8
May	109.7	106.8
June	121.6	128.4
July	131.7	133.6
August	123.9	119.8
September	106.2	105.0
October	92.9	89.9
November	72.9	77.7
December	77.7	79.1

PRODUCTION OF MIX FOR FROZEN PRODUCTS (HARD AND SOFT)
BY STATES AND REGIONS - 1981

STATE AND REGION	ICE CREAM MIX	ICE MILK 1/ MIX	SHERBET MIX	MELLORINE TYPE MIX	TOTAL MIX FOR FROZEN PRODUCTS
		(Thousand Gallons)			
NEW ENGLAND					
Maine	207	177	2/		384
New Hampshire	2/	2/	2/		2/
Vermont	2/	2/	2/		2/
Massachusetts	21,289	7,337	1,419		30,345
Rhode Island	497		23		520
Connecticut	9,342	804			10,146
MID ATLANTIC					
New York	34,998	6,955	1,785		43,738
New Jersey	10,287	2,564	218		13,069
Pennsylvania	37,297	6,997	2,420		46,714
E. N. CENTRAL					
Ohio	23,494	14,710	1,973		40,177
Indiana	10,018	3,608	676		14,302
Illinois	18,600	13,159	1,325	791	33,875
Michigan	16,974	7,397	1,227		25,598
Wisconsin	10,520	2,972	558		14,050
W. N. CENTRAL					
Minnesota	2/	2/	2/		2/
Iowa	2/	3,504		727	4,231
Missouri	7,833	5,023	765	47	13,668
North Dakota	1,126	436	82		1,644
South Dakota	2/	2/	2/		2/
Nebraska	4,848	2,391	264		7,503
Kansas	4,151	3,883	374		8,408
SOUTH ATLANTIC					
Delaware	2/	2/			2/
Maryland & D.C.	8,406	2,841	963		12,210
Virginia	5,527	6,114	246		11,887
West Virginia	1,163	1,112	85		2,360
North Carolina	13,594	7,159	897		21,650
South Carolina	5,588	1,846	681		8,115
Georgia	3,102	5,327	312		8,741
Florida	17,700	9,032	1,054		27,786
SOUTH CENTRAL					
Kentucky	2/	2,288	2/		2,288
Tennessee	9,236	2,501	670		12,407
Alabama	6,555	3,691	473		10,719
Mississippi	2,526	1,880	231		4,637
Arkansas	2,607	2,307	169	194	5,277
Louisiana	4,057	2,507	302	2	6,868
Oklahoma	4,867	2,536	316	105	7,824
Texas	22,785	7,863	1,844	2,980	35,472
MOUNTAIN					
Montana	965	673	45		1,683
Idaho	1,323	606	112		2,041
Wyoming	2/	2/	2/		2/
Colorado	5,008	3,560	344		8,912
New Mexico	1,743	2/	2/		1,743
Arizona	3,037		255		3,292
Utah	4,345	1,773	352		6,470
Nevada	621	562			1,183
PACIFIC					
Washington	8,640	5,733	709		15,082
Oregon	4,521	2,808	297	93	7,719
California	47,087	17,433	2,506	1,124	68,150
Other States 3/	28,449	10,445	3,091	110	42,295
UNITED STATES	424,933	184,514	29,063	6,373	644,883

1/ Includes milkshake mix.
2/ State data not shown when less than 3 plants or individual operations might be disclosed - included in "Other States" with Alaska and Hawaii.
3/ Includes varying states for each product.
Prepared by International Assn. of Ice Cream Mfrs. from data published by U. S. Department of Agriculture

HARD FROZEN PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1981

REGION	ICE CREAM	ICE MILK	SHERBET	MELLORINE TYPE PRODUCTS	TOTAL FOUR PRODUCTS 1/
			(Thousand Gallons)		
New England	63,224	3,764	3,051		70,039
Mid Atlantic	133,950	7,254	6,469		147,673
E. N. Central	155,321	10,842	8,298	96	174,557
W. N. Central	83,209	10,194	4,832	935	99,170
South Atlantic	104,201	14,285	6,346		124,832
South Central	107,669	11,409	6,496	5,398	130,972
Mountain	34,803	4,180	1,926	238	41,147
Pacific	118,954	12,866	6,483	1,934	140,237
UNITED STATES 2/	803,827	75,055	44,183	8,843	931,908

1/ Includes ice cream, ice milk, sherbet and mellorine type products.
2/ Includes Alaska and Hawaii.

Prepared by the International Association of Ice Cream Manufacturers from data released by U. S. Department of Agriculture.

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
BY REGIONS - 1981

REGION	ICE CREAM	ICE 1/ MILK	SHERBET	WATER ICES	MELLORINE TYPE PRODUCTS	OTHER FROZEN DAIRY PRODUCTS	TOTAL FROZEN PRODUCTS
	(Thousand Gallons)						
New England	65,645	15,876	3,160	1,380		830	86,891
Mid Atlantic	150,828	26,639	6,698	5,424		3,231	192,820
E. N. Central	157,116	64,568	8,758	6,901	1,109	2,621	241,073
W. N. Central	84,634	31,278	5,188	3,865	1,328	911	127,204
South Atlantic	107,207	49,918	6,418	6,450		737	170,730
South Central	109,601	42,693	6,673	4,220	6,292	1,418	170,897
Mountain	34,992	17,009	1,940	1,223	286	160	55,610
Pacific	119,724	41,744	6,514	4,334	1,934	3,256	177,506
UNITED STATES 2/	832,243	291,509	45,631	33,932	11,191	13,164	1,227,670

1/ Includes freezer-made milkshake.
2/ Includes Alaska and Hawaii.

Prepared by International Association of Ice Cream manufacturers from data released by U. S. Department of Agriculture.

PER CAPITA PRODUCTION (HARD AND SOFT
ICE CREAM AND RELATED PRODUCTS
BY REGIONS, 1960-1981

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts)					
ICE CREAM									
1960	18.44	19.71	17.94	17.11	13.23	9.52	13.21	14.25	15.55
1965	20.06	18.74	18.19	18.00	13.40	9.57	12.88	14.89	15.65
1970	20.82	17.96	16.86	17.94	11.36	10.18	11.90	14.62	14.96
1975	24.72	16.27	17.40	19.23	12.33	11.71	10.96	15.77	15.53
1979	22.08	15.34	15.42	19.42	11.68	10.66	12.02	15.39	14.45
1980	21.83	16.19	16.10	19.15	11.48	10.78	11.93	15.18	14.61
1981	21.10	16.36	15.09	19.64	11.36	11.19	11.97	15.42	14.52
ICE MILK									
1960	1.50	0.86	2.61	5.42	3.97	3.61	4.92	5.48	3.23
1965	2.10	2.01	4.50	6.59	6.52	5.54	5.47	6.21	4.77
1970	3.65	3.32	5.89	8.24	6.66	5.50	6.56	6.55	5.63
1975	5.34	3.40	6.49	7.70	5.86	5.14	5.18	5.95	5.55
1979	5.06	3.10	6.35	7.34	5.62	4.63	6.19	5.52	5.29
1980	4.72	3.11	6.14	7.34	5.49	4.39	6.23	5.48	5.17
1981	5.10	2.89	6.20	7.26	5.29	4.36	5.82	5.38	5.09
TOTAL FROZEN PRODUCTS 1/									
1960	21.76	22.34	22.91	24.98	18.97	18.19	20.01	23.96	21.54
1965	24.38	22.64	24.81	27.11	21.78	20.66	20.56	26.08	23.36
1970	26.55	23.06	25.06	28.46	19.48	20.48	20.06	25.64	23.43
1975	31.59	21.19	25.92	28.38	19.95	20.35	17.26	24.56	23.45
1979	28.84	20.02	23.66	29.42	18.76	17.31	19.48	22.81	21.60
1980	28.41	20.83	24.13	29.24	18.53	17.38	19.29	22.44	21.58
1981	27.93	20.92	23.15	29.52	18.09	17.44	19.02	22.86	21.42

1/ Includes ice cream, ice milk, sherbet, mellorine type products, water ices and other frozen dairy products.

Prepared by the International Association of Ice Cream Manufacturers from production data released by the U. S. Department of Agriculture and population estimates from Bureau of the Census, U. S. Department of Commerce.

NUMBER OF PLANTS PRODUCING ICE CREAM AND RELATED PRODUCTS
1960-1981

Year	Ice Cream Including Counter Freezers	Ice Cream Excluding Counter Freezers	Ice Milk	Sherbet	Water Ices	Mellorine Type Products
1960	16,591	-	23,843	5,067	2,376	1,242
1961	15,872	-	27,607	4,636	2,398	1,221
1962	14,541	-	30,919	3,764	2,353	1,364
1963	13,915	2,476	33,229	3,625	2,650	1,253
1964	13,106	-	34,485	3,395	2,691	1,313
1965	12,584	-	35,181	3,452	2,852	1,280
1966	12,063	-	36,158	3,580	2,682	1,308
1967	11,452	-	37,312	3,191	2,773	1,363
1968	11,228	1,873	39,474	3,108	2,854	1,792
1969	1/	1,739	1,160 2/	1,176 2/	1/	199 2/
1970		1,628	1,088	1,122 2/	377	203
1971		1,520	1,008	1,065	335	177
1972		1,451	984	1,022	363	180
1973		1,330	902	976	321	154
1974		1,239	824	904	299	146
1975		1,167	746	850	281	124
1976		1,124	718	812	281	119
1977		1,095	702	782	273	110
1978		1,062	670	744	263	101
1979		990	604	690	234	89
1980		949	576	654	220	76
1981		895	548	614	211	74

1/ Not available.
2/ After 1968. number of plants producing hard product Number of counter freezers not available.

Prepared by the International Association of Ice Cream Manufacturers from data published by the U. S. Department of Agriculture.

HARD FROZEN PRODUCTION - TOTAL AND PER CAPITA
ICE CREAM AND RELATED PRODUCTS
1955-1981 1/

YEAR	TOTAL FOUR PRODUCTS 2/		ICE CREAM		ICE MILK		SHERBET		MELLORINE TYPE PRODUCTS	
	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1955	729,578	17.75	612,812	14.92	52,217	1.27	34,675	0.84	29,874	0.72
1960	838,990	18.65	678,383	15.08	80,073	1.78	37,931	0.84	42,603	0.95
1965	962,267	19.89	741,024	15.32	126,146	2.60	44,954	0.93	50,143	1.04
1970	959,399	18.85	736,741	14.47	134,240	2.64	47,643	0.94	40,775	0.80
1975	989,823	18.38	803,494	14.92	116,609	2.17	45,996	0.85	23,724	0.44
1979	927,100	16.52	785,949	14.00	85,222	1.52	44,320	0.79	11,609	0.21
1980	939,132	16.53	801,876	14.12	83,584	1.47	43,745	0.77	9,927	0.17
1981	931,908	16.26	803,827	14.02	75,055	1.31	44,183	0.77	8,843	0.15

1/ Breakdown between hard frozen and soft serve production not available prior to 1955.
2/ Includes ice cream, ice milk, sherbet and mellorine type products.

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

POTPOURRI

In Home Consumption

- Ice cream and related products are consumed in 86% of the households in the United States.
- Supermarkets, grocery and convenience stores account for more than 80% of the sales of ice cream and related products.
- Those eating all types of ice cream and related products do so slightly less than twice a week and those eating ice cream, about one and a half times a week.
- Per capita eating of ice cream and related products is highest among children ages 2-17 and adults 45 years and over.
- Consumption of ice cream is fairly constant regardless of population density, with small towns slightly higher than the other groups.
- The eating of ice cream increases with income and education.
- More ice cream is consumed on Sunday than any other day of the week, while Tuesday shows the smallest consumption.
- Eatings of novelties are twice as high in the Northeast and North Central areas than they are in the South and West.
- Quiescently frozen confections (not stirred while freezing) account for nearly half of all frozen novelties consumed with other stick types, bars, cones and sandwiches making up the remainder.
- Consumption of ice milk is highest among those 65 and over with females eating more ice milk than males.
- Eighty-seven percent of ice cream packages are sold in half gallon containers.
- And, most importantly, consumers view ice cream as a terrific product - delicious - refreshing - high quality - healthful - nutritious - fun - exciting - and festive!

OF NOTE

- During Columbia's fourth mission into space on June 28, 1982, astronauts Ken Mattingly and Hank Hartsfield ate heaping portions of "store-bought" ice cream while watching the world go by.

DIFFERENTIATION BY ICE CREAM QUALITY

There are no fixed standards or single definition to determine the quality of ice cream. The preference of consumers vary and the degree of quality will ultimately be the consumer's perception of the product. Milkfat, total solids, overrun, flavoring, promotion and packaging are all factors influencing consumers' preferences. In IAICM's recent study, ice cream manufacturers were requested to position their products into four categories. Under this procedure, the following profile evolved:

	% of Market
Super Premium	11%
Premium	24
Regular	52
Economy	13
	100%

SERVING OCCASIONS

There has been a shift in the serving occasions of these products from a dessert to a snack food in recent years. These products are served on the following occasions:

	Percent of Total		
	Ice Cream	Ice Milk	Sherbet
Snack	53.2%	45.9%	47.3%
Dessert	40.2	48.8	44.5
All Other	6.6	5.3	8.2
	100.0%	100.0%	100.0%

ADVERTISING EXPENDITURES BY MEDIA

Television	43%
Newspapers	36
Radio	14
Billboards	4
Other	3
	100%

FOODSERVICE

Foodservice industry sales totaled $114.6 billion in 1980, an increase of 8.7% over 1979. Eating places accounted for 60% of these sales for a total of $67.7 billion, an increase of 8.6% Ice cream and frozen custard stand sales increased 8.4% and amounted to $1.3 billion for the year.

Eating Places	No. of Units	1980 (Million Dollars)	1979 (Million Dollars)	% Change
Restaurants, Lunchrooms	121,461	$36,038	$33,398	+ 7.9
Limited Menu Restaurants (including Fast Foods)	101,587	27,435	24,936	+10.0
Commercial Cafeterias	6,856	2,164	2,045	+ 5.8
Social Caterers	3,380	776	749	+ 3.6
Ice Cream/Frozen Custard Stands	8,749	1,289	1,190	+ 8.4
TOTAL EATING PLACES	242,033	67,702	62,318	+ 8.6

Source: National Restaurant Association

PERCENTAGE OF HOUSEHOLDS USING SELECTED
SUPERMARKET PRODUCTS, 1980, DURING 30-DAY PERIOD

Product Category	Percent Using %
DAIRY PRODUCTS:	
Ice Cream, Ice Milk	86.0
Fresh Milk	93.0
American Pasteurized Processed Cheese	83.7
Natural Cheese	75.4
Cottage Cheese	70.0
Butter	58.8
Dry Milk	27.8
Fresh Yogurt	27.7
Frozen Yogurt	12.5
OTHER FOOD PRODUCTS:	
Margarine	88.8
Potato Chips	78.2
Gelatin Desserts, Flavored	77.8
Cookies	77.4
Toppings, Whipped	69.0
Puddings, Instant, Powdered	66.9
Cola Carbonated Drinks, Not Diet	66.1
Candy Bars	62.5
Snack Cakes	50.5
Pretzels	47.0
Pies, Cakes, Pastries, Frozen	46.2
Cream Substitutes	32.6
Donuts, Frozen	21.4
Average, Selected Dairy Products	61.5
Average, 201 Grocery Products	51.7

Source: Progressive Grocer, 1981 Product Guide

ESTIMATED WHOLESALE VALUE OF
ICE CREAM PRODUCTS - 1981 1/

Product	Wholesale Value (Dollars)
Ice Cream	2,575,000,000
Ice Milk	714,000,000
Sherbet	123,000,000
Water Ices	33,000,000

1/ Estimated by the International Association of Ice Cream Manufacturers.

FLAVORS 1/

ICE CREAM - 10 TOP FLAVORS
(Hard Frozen)

1.	Vanilla	35.1%
2.	Chocolate	12.4
3.	Neapolitan	7.4
4.	Chocolate Chip	5.9
5.	Strawberry	5.6
6.	Vanilla Fudge	4.2
7.	Butter Pecan	2.7
8.	Cherry	2.5
9.	Butter Almond	1.6
10.	French Vanilla	1.4
	Others	21.2
		100.0%

ICE MILK - 5 TOP FLAVORS
(Hard Frozen)

1.	Vanilla	49.2%
2.	Chocolate	11.0
3.	Vanilla Fudge	7.2
4.	Neapolitan	6.1
5.	Strawberry	4.0
	Others	22.5
		100.0%

SHERBET - 5 TOP FLAVORS
(Hard Frozen)

1.	Orange	32.6%
2.	Rainbow	22.0
3.	Lime	13.4
4.	Raspberry	11.5
5.	Pineapple	10.7
	Others	9.8
		100.0%

1/ Additional information available in "Frozen Dessert Facts" published by International Association of Ice Cream Manufacturers, based on 1978 production.

PER CAPITA PRODUCTION OF HARD FROZEN PRODUCTS
ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1960-1981

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts)					
ICE CREAM									
1960	18.04	17.97	17.65	17.08	12.94	9.47	13.16	14.22	15.08
1965	19.95	17.45	17.97	17.96	13.27	9.50	12.83	14.87	15.32
1970	19.81	16.43	16.63	17.82	11.17	9.96	11.81	14.41	14.47
1975	24.45	14.52	16.86	17.94	12.08	11.48	10.92	15.69	14.92
1979	21.11	13.64	15.22	19.38	11.39	10.61	11.87	15.30	14.00
1980	21.03	14.42	15.77	19.04	11.20	10.57	11.82	15.14	14.12
1981	20.32	14.53	14.92	19.31	11.04	10.99	11.90	15.32	14.02
ICE MILK									
1960	0.50	0.33	0.97	2.72	2.81	2.25	2.15	3.50	1.78
1965	0.66	0.96	1.88	3.26	4.73	3.75	2.20	2.89	2.60
1970	0.99	1.51	2.24	3.95	4.16	3.35	1.96	2.39	2.64
1975	2.34	1.46	1.89	3.13	2.58	2.59	1.74	1.91	2.17
1979	1.56	1.06	1.23	2.40	1.94	1.52	1.15	1.63	1.52
1980	1.33	0.94	1.15	2.29	1.82	1.38	1.56	1.85	1.47
1981	1.21	0.79	1.04	2.37	1.51	1.17	1.43	1.66	1.31
SHERBET									
1960	0.95	0.58	0.97	0.79	0.79	0.76	0.90	1.21	0.84
1965	1.20	0.72	1.02	0.83	0.88	0.89	0.89	1.18	0.93
1970	1.22	0.69	1.07	0.90	0.65	0.87	0.89	1.17	0.94
1975	1.04	0.61	0.97	0.99	0.79	0.79	0.70	1.05	0.85
1979	0.93	0.57	0.88	1.13	0.73	0.67	0.73	0.91	0.79
1980	1.01	0.65	0.80	1.09	0.68	0.68	0.70	0.85	0.77
1981	0.98	0.70	0.80	1.12	0.67	0.66	0.66	0.84	0.77
MELLORINE									
1960	-	-	0.31	1.01	0.03	3.24	0.36	2.25	0.95
1965	-	-	0.20	0.78	0.02	3.49	0.74	2.85	1.04
1970	-	-	0.16	0.41	-	2.51	0.43	2.22	0.80
1975	-	-	0.05	0.15	-	1.47	0.22	1.06	0.44
1979	-	-	0.02	0.35	-	0.67	0.10	0.40	0.21
1980	-	-	0.01	0.29	-	0.58	0.10	0.32	0.17
1981	-	-	0.01	0.22	-	0.55	0.08	0.25	0.15

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture and population estimates from Bureau of the Census, U. S. Department of Commerce.

PERCENTAGE OF HARD FROZEN PRODUCTION SOLD AS
ICE CREAM, ICE MILK, SHERBET AND MELLORINE
BY REGIONS - 1960-1981

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Percent)					
ICE CREAM									
1960	93	95	89	79	78	60	79	67	81
1965	92	91	85	79	70	54	77	68	77
1970	90	88	83	77	70	60	78	71	77
1975	88	87	85	81	78	70	80	80	81
1979	89	89	88	84	81	79	86	84	85
1980	90	90	89	84	82	80	83	83	85
1981	90	91	89	84	84	82	84	85	86
ICE MILK									
1960	2	2	5	12	17	14	13	16	10
1965	3	5	9	14	25	21	13	13	13
1970	4	8	11	17	26	20	13	12	14
1975	8	9	10	14	17	16	13	10	12
1979	7	7	7	10	14	11	8	9	9
1980	6	6	6	10	13	10	11	10	9
1981	6	5	6	10	11	9	10	9	8
SHERBET									
1960	5	3	5	4	5	5	6	6	4
1965	5	4	5	4	5	5	5	6	5
1970	6	4	5	4	4	5	6	6	5
1975	4	4	5	4	5	5	5	5	5
1979	4	4	5	5	5	5	5	5	5
1980	4	4	5	5	5	5	5	5	5
1981	4	4	5	5	5	5	5	5	5
MELLORINE									
1960	-	-	1	5	-	21	2	11	5
1965	-	-	1	3	-	20	5	13	5
1970	-	-	1	2	-	15	3	11	4
1975	-	-	-	1	-	9	2	5	2
1979	-	-	-	1	-	5	1	2	1
1980	-	-	-	1	-	5	1	2	1
1981	-	-	-	1	-	4	1	1	1

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

SOFT SERVE PRODUCTION - TOTAL AND PER CAPITA
ICE CREAM AND RELATED PRODUCTS
1955-1981 1/

YEAR	FOUR PRODUCTS 2/		ICE CREAM		ICE MILK		SHERBET		MELLORINE TYPE PRODUCTS	
	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1955	58,758	1.44	15,713	0.38	37,968	0.93	2,690	0.07	2,387	0.06
1960	91,740	2.04	21,222	0.47	65,104	1.45	2,803	0.06	2,611	0.06
1965	124,343	2.57	15,976	0.33	104,846	2.17	495	0.01	3,026	0.06
1970	189,761	3.72	24,991	0.49	152,423	2.99	1,244	0.02	11,103	0.22
1975	224,098	4.16	33,058	0.61	182,180	3.38	2,546	0.05	6,314	0.12
1979	241,430	4.30	25,130	0.45	211,431	3.77	804	0.01	4,065	0.07
1980	242,427	4.28	27,922	0.49	209,800	3.70	1,442	0.03	3,263	0.06
1981	248,666	4.34	28,416	0.50	216,454	3.78	1,448	0.03	2,348	0.04

1/ Breakdown between hard frozen and soft serve production not available prior to 1955.
2/ Includes ice cream, ice milk, sherbet and mellorine type products

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

SOFT SERVE PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1981

REGION	ICE CREAM	ICE MILK	SHERBET	MELLORINE TYPE PRODUCTS	TOTAL FOUR PRODUCTS 1/
			(Thousand Gallons)		
New England	2,421	12,112	109		14,642
Mid Atlantic	16,878	19,385	229		36,492
E. N. Central	1,795	53,726	460	1,013	56,994
W. N. Central	1,425	21,084	356	393	23,258
South Atlantic	3,006	35,633	72		38,711
South Central	1,932	31,284	177	894	34,287
Mountain	189	12,829	14	48	13,080
Pacific	770	28,878	31		29,679
UNITED STATES 2/	28,416	216,454	1,448	2,348	248,666

1/ Includes ice cream, ice milk, sherbet and mellorine type products.
2/ Includes Alaska and Hawaii.

Prepared by the International Association of Ice Cream Manufacturers from data released by U. S. Department of Agriculture.

PER CAPITA AND PERCENT OF PRODUCTION OF SOFT SERVE PRODUCTS
ICE CREAM AND ICE MILK
BY REGIONS - 1960-1981

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts per Capita)					
ICE CREAM									
1960	0.40	1.74	0.29	0.03	0.29	0.05	0.05	0.03	0.47
1965	0.11	1.29	0.22	0.04	0.13	0.07	0.05	0.02	0.33
1970	1.01	1.53	0.23	0.12	0.19	0.22	0.09	0.21	0.49
1975	0.27	1.75	0.54	1.29	0.25	0.23	0.04	0.08	0.61
1979	0.97	1.70	0.20	0.04	0.29	0.05	0.15	0.09	0.45
1980	0.80	1.77	0.33	0.11	0.28	0.21	0.11	0.04	0.49
1981	0.78	1.83	0.17	0.33	0.32	0.20	0.07	0.10	0.50
ICE MILK									
1960	1.00	0.53	1.64	2.70	1.16	1.36	2.77	1.98	1.45
1965	1.44	1.05	2.62	3.33	1.79	1.79	3.27	3.32	2.17
1970	2.66	1.81	3.65	4.29	2.50	2.15	4.60	4.16	2.99
1975	3.00	1.94	4.60	4.57	3.28	2.55	3.44	4.04	3.38
1979	3.50	2.04	5.12	4.94	3.68	3.11	5.04	3.89	3.77
1980	3.39	2.17	4.99	5.05	3.67	3.01	4.67	3.63	3.70
1981	3.89	2.10	5.16	4.89	3.78	3.19	4.39	3.72	3.78
				(Percent)					
ICE CREAM									
1960	29	76	13	1	20	3	2	2	23
1965	7	55	8	1	7	3	2	1	13
1970	27	46	6	3	7	7	2	5	13
1975	8	47	10	21	7	7	1	2	15
1979	22	45	4	1	7	2	3	2	10
1980	19	45	6	2	7	6	2	1	11
1981	16	46	3	6	8	6	1	3	11
ICE MILK									
1960	71	23	75	99	80	77	98	98	71
1965	93	44	92	99	93	79	98	99	84
1970	72	54	86	92	93	67	98	94	80
1975	92	52	87	76	91	76	99	96	81
1979	78	54	94	95	92	92	96	98	88
1980	81	55	91	94	91	90	97	99	87
1981	83	53	94	91	92	91	98	97	87

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

HIGHLIGHTS—CANADA

1981

Total production of ice cream and related products in Canada amounted to 369 million liters, an increase of 0.7% for the year. The per capita production was 15.7 liters.

No change was reported in the volume of ice cream produced. The total for the year amounted to 311.4 million liters, with hard production making up 94% of this total. Ontario produced the largest amount of ice cream, 117 million liters. Manitoba, however, claimed the highest per capita production, 20.9 liters, followed by Alberta with 15 liters and British Columbia with 14.4 liters.

Ice milk production climbed 8% for the year, freezer-made milkshake gained 6% and water ices increased 1%. Sherbet production is on the decline, with a reported decrease in 1980 of 13.5% followed by a decrease of 8.5% in 1981.

Ice cream remains the predominant product and accounted for 84.4% of all production, followed by freezer-made milkshake with 7.6%, ice milk 3.7%, water ices 3.5% and sherbet 0.8%.

Twice as much ice cream was produced in July, with 12% of the total, as January, the lowest ranking month, with 6%.

Production Changes - 1981

	Production 1981 1/ (Liters) 2/	% Change from 1980 %	Per Capita Production 1981 (Liters) 2/	% Change from 1980 %
Ice Cream - Hard	291,844,000	- 0.95	12.45	- 1.81
Ice Cream - Soft	19,541,000	+16.80	0.84	+15.80
Total Ice Cream	311,385,000	+ 0.005	13.29	- 0.85
Ice Milk	13,459,000	+ 8.14	0.57	+ 7.21
Freezer-made Milkshake 3/	28,102,000	+ 6.19	1.20	+ 5.26
Water Ices	13,074,000	+ 1.16	0.56	0.0
Sherbet	2,902,000	- 8.45	0.12	- 9.25
TOTAL ALL PRODUCTS	368,922,000	+ 0.70	15.74	- 0.18

1/ Excludes production in Newfoundland and Prince Edward Island.
2/ One U.S. quart equivalent to .946 liter.
3/ Freezer-made milkshake derived by applying 40% overrun to milkshake mix.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

HARD AND SOFT PRODUCTION OF ICE CREAM - CANADA
BY PROVINCES - 1979-1980-1981

Province	Year	Production			Percent	
		Hard	Soft	Total	Hard	Soft
		(Thousand Liters) 1/				
Alberta	1979	29,794	3,556	33,350	89	11
	1980	28,675	2,678	31,353	91	9
	1981	29,610	2,779	32,389	91	9
British Columbia	1979	33,428	4,174	37,602	89	11
	1980	34,103	4,481	38,584	88	12
	1981	34,197	4,792	38,989	88	12
Manitoba	1979	17,810	1,758	19,568	91	9
	1980	19,038	1,903	20,941	91	9
	1981	19,729	1,864	21,593	91	9
New Brunswick	1979	7,809	397	8,206	95	5
	1980	7,243	297	7,540	96	4
	1981	6,588	314	6,902	95	5
Nova Scotia	1979	10,992	907	11,899	92	8
	1980	10,927	872	11,799	93	7
	1981	9,651	809	10,460	92	8
Ontario	1979	104,763	1,836	106,599	98	2
	1980	109,449	1,970	111,419	98	2
	1981	114,903	2,041	116,944	98	2
Quebec	1979	75,357	3,628	78,985	95	5
	1980	75,951	2,976	78,927	96	4
	1981	68,649	5,617	74,266	92	8
Saskatchewan	1979	9,795	1,665	11,460	85	15
	1980	9,253	1,553	10,806	86	14
	1981	8,517	1,325	9,842	87	13
CANADA 2/	1979	289,748	17,921	307,669	94	6
	1980	294,639	16,730	311,369	95	5
	1981	291,844	19,541	311,385	94	6

1/ One U. S. quart equivalent to .946 liter.
2/ Excludes production in Newfoundland and Prince Edward Island

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

International Statistics

This section includes data for 57 countries, including United States and Canada. In some countries production is reported only by the larger manufacturers and no estimates are available for the output by small establishments. In such instances, the computed production per capita is incomplete, but the reported figures indicate trends.

Country and Product	Annual Production: In Reported Units	Annual Production: Converted to U.S. Gallons	Per Capita Production: In Reported Units	Per Capita Production: Converted to U. S. Pints
UNITED STATES - 1981				
Ice Cream		832,243,000		29.04
Ice Milk		291,509,000		10.18
Sherbet		45,631,000		1.59
Water Ices		33,932,000		1.18
Mellorine Type Products		11,191,000		0.38
Other Frozen Dairy Products		13,164,000		0.46
Total		1,227,670,000		42.83
ARGENTINA - 1980	(Liters)		(Liters)	
Ice Cream	27,000,000	7,133,000	0.96	2.03
Ice Milk	4,500,000	1,189,000	0.16	0.34
Sherbet & Water Ices	4,500,000	1,189,000	0.16	0.34
Other (Napolitan)	9,000,000	2,378,000	0.32	0.68
Total	45,000,000	11,889,000	1.60	3.39
AUSTRALIA - 1981	(Liters)		(Liters)	
Ice Cream	214,671,000	56,716,000	14.47	30.55
Milk Ices 1/	36,117,000	9,542,000	2.43	5.13
Water Ices	16,293,000	4,304,000	1.10	2.32
Other Frozen Products	10,176,000	2,689,000	0.69	1.46
Total	277,257,000	73,251,000	18.69	39.46
AUSTRIA - 1981	(Liters)		(Liters)	
Ice Cream	35,000,000	9,247,000	4.66	9.84
Sherbet & Water Ices	11,000,000	2,906,000	1.46	3.08
Total	46,000,000	12,153,000	6.12	12.92
BANGLADESH - 1979	(Metric Tons)		(Kilograms)	
Ice Cream	250	122,500	-	-
Water Ices	6,000	2,205,000	0.07	0.21
Total	6,250	2,327,500	0.07	0.21
BELGIUM - 1981	(Liters)		(Liters)	
Ice Cream & Related Products	53,695,000	14,185,000	5.44	11.49
BRAZIL - 1981	(Liters)		(Liters)	
Ice Cream	57,620,000	15,223,000	0.46	0.97
Ice Milk	19,780,000	5,226,000	0.16	0.34
Sherbet & Water Ices	8,600,000	2,272,000	0.07	0.15
Total	86,000,000	22,721,000	0.69	1.46
CANADA - 1981	(Liters)		(Liters)	
Ice Cream	311,385,000	82,268,000	13.29	28.05
Freezer-made Milkshake 2/	28,102,000	7,424,000	1.20	2.53
Ice Milk	13,459,000	3,556,000	0.57	1.21
Water Ices	13,074,000	3,454,000	0.56	1.18
Sherbet	2,902,000	767,000	0.12	0.26
Total	368,922,000	97,469,000	15.74	33.23
CHILE - 1981	(Liters)		(Liters)	
Ice Cream	32,264,000	8,524,000	2.83	5.93

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
COSTA RICA - 1981	(Liters)		(Liters)	
Ice Cream	8,072,000	2,132,600	3.53	7.46
Ice Milk	1,347,000	355,800	0.59	1.25
Sherbet & Water Ices	394,000	104,100	0.17	0.36
Total	9,813,000	2,592,500	4.29	9.07
DENMARK - 1981	(Liters)		(Liters)	
Ice Cream	39,017,000	10,308,000	7.57	15.99
Water Ices	3,444,000	910,000	0.67	1.41
Total	42,461,000	11,218,000	8.24	17.40
DOMINICAN REPUBLIC - 1978	(Kilograms)		(Kilograms)	
Ice Cream	3,758,190	1,841,400	0.73	2.86
ECUADOR - 1977	(Kilograms)		(Kilograms)	
Ice Cream	4,500,000	2,205,000	0.63	2.47
Ice Milk	1,500,000	735,000	0.21	0.82
Sherbet & Water Ices	2,000,000	735,000	0.28	0.82
Total	8,000,000	3,675,000	1.12	4.11
EGYPT - 1980	(Metric Tons)		(Kilograms)	
Ice Cream	15,000	7,350,000	0.36	1.41
Ice Milk	1,000	490,000	0.02	0.08
Sherbet & Water Ices	2,000	735,000	0.04	0.12
Total	18,000	8,575,000	0.42	1.61
EL SALVADOR - 1976	(Liters)		(Liters)	
Ice Cream	1,293,000	342,000	0.30	0.64
Ice Cream Sticks, etc.	6,255,000	1,653,000	1.47	3.10
Total	7,548,000	1,995,000	1.77	3.74
FINLAND - 1973	(Liters)		(Liters)	
Ice Cream 3/	35,600,000	9,406,000	7.67	16.19
FRANCE - 1981	(Liters)		(Liters)	
Ice Cream Industrial	174,221,000	46,029,000	3.24	6.83
WEST GERMANY - 1980	(Liters)		(Liters)	
Ice Cream	234,454,000	61,943,000	3.82	8.08
Ice Milk	62,618,000	16,544,000	1.02	2.12
Sherbet & Water Ices	27,048,000	7,146,000	0.44	0.95
Total Industrial Production	324,120,000	85,633,000	5.28	11.15
Small Establishments	80,700,000	21,321,000	1.32	2.78
Total	404,820,000	106,954,00	6.60	13.93
GREECE - 1981	(Metric Tons)		(Kilograms)	
Ice Cream	27,000	13,230,000	2.78	10.90
GUATEMALA - 1975				
Ice Cream		1,368,000		1.85
Novelties & Sherbet		2,191,000		2.96
Total		3,559,000		4.81
HONG KONG - 1978				
Ice Cream		4,536,000		7.72
Sherbet		73,000		0.13
Water Ices		892,500		1.52
Total		5,501,500		9.37

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
ICELAND - 1973	(Liters)		(Liters)	
Ice Cream	993,262	262,400	4.71	9.95
Ice Milk	5,180	1,400	0.02	0.05
Ice Milk Mixtures	217,757	57,500	1.03	2.18
Total	1,216,199	321,300	5.76	12.18
INDIA - 1980	(Metric Tons)		(Kilograms)	
Ice Cream	232,000	113,680,000	0.34	1.33
INDONESIA - 1980	(Liters)		(Liters)	
Ice Cream	34,881,386	9,215,662	0.24	0.51
IRAN - 1978	(Metric Tons)		(Kilograms)	
Ice Cream	10,615	5,201,000	0.28	1.09
IRELAND - 1981	(Liters)		(Liters)	
Ice Cream	25,830,000	6,359,000	7.75	16.36
ITALY - 1981	(Liters)		(Liters)	
Ice Cream	200,000,000	52,840,000	3.48	7.34
IVORY COAST - 1981	(Liters)		(Liters)	
Ice Cream & Related Products	175,000	46,235	0.02	0.05
JAPAN - 1980	(Liters)		(Liters)	
Ice Cream	150,400,000	39,737,000	1.29	2.72
Ice Milk	63,300,000	16,724,000	0.54	1.14
Imitation Ice Cream	277,100,000	73,210,000	2.37	5.01
Sherbet & Water Ices	300,900,000	79,498,000	2.57	5.44
Total	791,700,000	209,169,000	6.77	14.31
KOREA - 1981	(Metric Tons)		(Kilograms)	
Ice Cream	37,492	18,371,000	0.96	3.78
LEBANON - 1978				
Dairy Ice Cream		350,000		1.05
Other Ice Cream		10,000		0.03
Water Ices		500,000		1.50
Arabic Ice Cream		200,000		0.60
Sherbet		300,000		0.90
Total		1,360,000		4.08
LIBERIA - 1978	(Liters)		(Liters)	
Ice Cream 4/	149,448	39,484	0.09	0.18
MALAYSIA - 1978	(Liters)		(Liters)	
Ice Cream	3,774,200	997,000	0.29	0.62
Bars, Popsicles	3,212,800	849,000	0.25	0.53
Total	6,987,000	1,846,000	0.54	1.15
MEXICO - 1981	(Liters)		(Liters)	
Ice Cream	111,700,000	29,511,000	1.55	3.28
Sherbet & Water Ices	15,900,000	4,200,000	0.22	0.47
Total	127,600,000	33,711,000	1.77	3.75
MOROCCO - 1978	(Liters)		(Liters)	
Ice Cream & Related Products	5,000,000	1,321,000	0.27	0.58
NEPAL - 1973	(Metric Tons)		(Kilograms)	
Ice Cream	1,000	490,000	0.08	0.32

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
NETHERLANDS - 1981	(Liters)		(Liters)	
Ice Cream	13,372,300	3,533,000	0.94	1.98
Water Ices	5,726,700	1,513,000	0.40	0.85
Others	19,089,000	5,043,000	1.34	2.83
Total	38,188,000	10,089,000	2.68	5.66
NEW ZEALAND - 1981	(Liters)		(Liters)	
Ice Cream	56,900,000	15,033,000	17.41	36.76
NIGERIA - 1980	(Liters)		(Liters)	
Ice Cream	2,200,000	581,000	0.03	0.07
NORWAY - 1981	(Liters)		(Liters)	
Ice Cream	31.552,000	8,336,000	7.89	16.66
Soft Ice Cream	2,007,000	530,000	0.50	1.06
Sherbet	2,019,000	534,000	0.50	1.06
Total	35,578,000	9,400,000	8.89	18.78
PAKISTAN - 1980	(Metric Tons)		(Kilograms)	
Ice Cream	22,200	10,878,000	0.27	1.06
Ice Milk	8,080	3,959,000	0.10	0.38
Sherbet	8,900	3,271,000	0.11	0.32
Total	39,180	18,108,000	0.48	1.76
PERU - 1978	(Metric Tons)		(Kilograms)	
Ice Cream & Ice Milk	4,672	2,289,300	0.28	1.10
Water Ices	970	356,500	0.06	0.18
Total	5,642	2,645,800	0.34	1.28
PHILIPPINES - 1975				
Ice Cream 3/		3,940,000		0.74
POLAND - 1981	(Metric Tons)		(Kilograms)	
Ice Cream	29,667	14,537,000	0.83	3.25
PORTUGAL - 1980	(Metric Tons)		(Kilograms)	
Ice Cream	4,467	2,189,000	0.45	1.76
SOUTH AFRICA - 1980	(Liters)		(Liters)	
Ice Cream	16,500,000	4,359,000	0.57	1.20
Ice Milk	2,200,000	581,000	0.08	0.16
Sherbet	35,400,000	9,353,000	1.22	2.59
Others	10,100,000	2,668,000	0.35	0.74
Total	64,200,000	16,961,000	2.22	4.69
SPAIN - 1980	(Metric Tons)		(Kilograms)	
Ice Cream 5/	39,189	19,202,600	1.05	4.10
Ice Milk & Milk Based Beverages 5/	69,089	33,853,600	1.84	7.24
Total	108,278	53,056,200	2.89	11.34
SWEDEN - 1981	(Liters)		(Liters)	
Ice Cream	92,600,000	24,465,000	11.10	23.44
Water Ices	5,280,000	1,395,000	0.63	1.33
Ice Cream Mixes 6/	7,380,000	1,950,000	0.89	1.88
Total	105,260,000	27,810,000	12.62	26.65
SWITZERLAND - 1981	(Liters)		(Liters)	
Ice Cream & Related Products	52,230,000	13,799,000	8.26	17.44

	ANNUAL PRODUCTION		PER CAPITA PRODUCTION	
	In Reported Units	Converted to U.S. Gallons	In Reported Units	Converted to U. S. Pints
TAIWAN - 1981				
Ice Cream		6,469,892		2.85
Ice Cream Stick & Novelties		2,864,379		1.26
Total		9,334,271		4.11
TURKEY - 1981	(Liters)		(Liters)	
Ice Cream & Related Products	40,900,000	10,806,000	0.89	1.88
UNITED KINGDOM - 1981	(Liters)		(Liters)	
Bulk Ice Cream	86,700,000	22,906,000	1.55	3.27
Prepackaged for Retail	73,300,000	19,366,000	1.31	2.77
Total	160,000,000	42,272,000	2.86	6.04
URUGUAY - 1981	(Kilograms)		(Kilograms)	
Ice Cream & Sherbet	2,600,000	1,274,000	0.88	3.44
USSR - 1981	(Metric Tons)		(Kilograms)	
Ice Cream	157,650	77,249,000	0.59	2.30
VENEZUELA - 1981	(Liters)		(Liters)	
Ice Cream	9,909,000	2,618,000	0.65	1.37
Ice Milk	24,419,000	6,451,500	1.60	3.38
Sherbet & Water Ices	8,526,000	2,252,500	0.56	1.18
Total	42,854,000	11,322,000	2.81	5.93
YUGOSLAVIA - 1980	(Metric Tons)		(Kilograms)	
Ice Cream Industrial	19,200	9,408,000	0.86	3.37
Small Establishments	3,500	1,715,000	0.16	0.62
Total	22,700	11,123,000	1.02	3.99

1/ Includes aerated milk-based confections and milk-based mixes for soft serves and thick shakes.
2/ Freezer-made milkshake derived by applying 40% overrun to milkshake mix.
3/ Does not include production by small establishments.
4/ Includes imported ice cream and sherbet.
5/ Production by establishments processing over one million liters of milk per year.
6/ Converted into ready-made soft ice cream.

CONVERSION FACTORS:

1 Liter = .2642 U. S. Gallons
= 2.1114 U. S. Pints

1 U. S. Gallon of Ice Cream or Ice Milk = 4.5 pounds
1 U. S. Gallon of Sherbet or Water Ices = 6.0 pounds

1 Kilogram = 2.205 pounds
= .4900 U. S. Gallons of Ice Cream or Ice Milk
= .3675 U. S. Gallons of Sherbet or Water Ices
= 3.920 U. S. Pints of Ice Cream or Ice Milk
= 2.940 U. S. Pints of Sherbet or Water Ices

1 Metric Ton (1,000 Kilograms) = 2,205 pounds
= 490.0 U. S. Gallons of Ice Cream or Ice Milk
= 367.5 U. S. Gallons of Sherbet or Water Ices

Prepared by the International Association of Ice Cream Manufacturers from data supplied by Agricultural Attaches of the U. S. Department of Agriculture, or from government or trade statistics.

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS - CANADA
1971-1981 1/

Year	Ice Cream Total	Ice Cream Hard	Ice Cream Soft	Freezer-made Milkshake 2/	Ice Milk	Sherbet	Water Ices
				(Thousand Liters) 3/			
1971	272,439	254,591	17,848	10,826	7,901	3,519	12,847
1972	276,917	258,851	18,066	9,369	13,674	3,701	13,588
1973	275,175	256,954	18,221	10,304	13,879	3,914	15,402
1974	277,744	259,164	18,580	12,003	11,429	3,841	11,583
1975	287,232	266,515	20,717	11,820	12,675	3,337	12,602
1976	279,571	258,850	20,721	13,219	14,084	3,578	11,665
1977	291,173	269,637	21,536	15,364	15,219	3,122	11,398
1978	271,429	250,183	21,246	14,718	15,158	3,528	11,786
1979	307,669	289,748	17,921	14,237	12,147	3,664	12,744
1980	311,369	294,639	16,730	26,463 4/	12,446	3,170	12,924
1981	311,385	291,844	19,541	28,102	13,459	2,902	13,074

1/ Excludes production in Newfoundland and Prince Edward Island.
2/ Freezer-made milkshake derived by applying 40% overrun to milkshake mix.
3/ One U. S. quart equivalent to .946 liter.
4/ New base for freezer-made milkshake established in 1980.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS - CANADA

1981 1/

Month	Total Ice Cream	Ice Cream Hard	Soft	Freezer-Made Milkshake 2/	Ice Milk	Sherbet	Water Ices
				(Thousand Liters) 3/			
January	18,941	18,347	594	1,610	458	223	271
February	19,890	19,301	589	1,778	673	159	400
March	25,231	24,135	1,096	1,922	970	218	1,415
April	28,394	27,023	1,371	1,806	823	310	1,250
May	29,598	26,894	2,704	2,446	1,646	315	1,552
June	35,907	32,568	3,339	3,647	2,152	315	2,252
July	37,464	34,054	3,410	3,117	2,338	336	2,590
August	31,405	28,474	2,931	3,070	1,592	342	1,623
September	24,760	23,225	1,535	2,694	1,025	239	834
October	20,227	19,355	872	2,142	657	161	336
November	20,133	19,579	554	1,854	562	155	252
December	19,435	18,889	546	2,016	563	129	299
YEAR	311,385	291,844	19,541	28,102	13,459	2,902	13,074

1/ Excludes production in Newfoundland and Prince Edward Island.

2/ Freezer-made milkshake derived by applying 40% overrun to milkshake.

3/ One U. S. quart equivalent to .946 liter.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

PER CAPITA PRODUCTION OF ICE CREAM - CANADA
BY PROVINCES - 1970-1981

Province	1970	1975	1978	1979	1980	1981
			(Liters) 1/			
Alberta	16.06	17.12	15.54	16.39	15.03	14.95
British Columbia	13.26	13.71	13.95	14.50	14.60	14.36
Manitoba	15.41	18.65	18.24	19.04	20.35	20.92
New Brunswick	13.54	14.01	12.07	11.69	10.64	9.71
Nova Scotia	14.97	15.60	12.37	13.99	13.83	12.19
Ontario	12.80	11.22	9.83	12.51	12.99	13.55
Quebec	12.17	12.46	11.73	12.57	12.51	11.70
Saskatchewan	12.44	12.69	11.89	11.91	11.14	10.03
CANADA 2/	13.13	13.06	11.93	13.32	13.40	13.29

1/ One U. S. quart equivalent to .946 liter.

2/ Excludes production and population for Newfoundland and Prince Edward Island.

Prepared by the international Association of Ice Cream Manufacturers from data released by Statistics Canada.